

**ENF**

**Environmental  
Notification Form**

For Office Use Only  
Executive Office of Environmental Affairs

EOEA No.: **12839**  
MEPA Analyst: **Bill GAGE**  
Phone: 617-626-**1025**

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: <i>Installation of Replacement Public Water Supply Well for Spencer, MA</i>		
Street: <i>Off Meadow Road</i>		
Municipality: <i>Spencer</i>	Watershed: <i>Chicopee</i>	
Universal Transverse Mercator Coordinates: <i>18 7 46 560E, 46 81 289N</i>	Latitude: <i>42° 14' 48" N</i> Longitude: <i>72° 0' 41" W</i>	
Estimated commencement date: <i>9/02</i>	Estimated completion date: <i>12/02</i>	
Approximate cost: <i>\$100,000</i>	Status of project design: <i>80%</i>	%complete
Proponent: <i>Spencer Water Department – H. Warren Ramsey, Superintendent</i>		
Street: <i>3 Old Meadow Road</i>		
Municipality: <i>Spencer</i>	State: <i>MA</i>	Zip Code: <i>01562</i>
Name of Contact Person From Whom Copies of this ENF May Be Obtained: <i>David F. Edson, P.E.</i>		
Firm/Agency: <i>Prism Environmental, Inc.</i>	Street: <i>18 Lyman Street, Suite Q</i>	
Municipality: <i>Westborough</i>	State: <i>MA</i>	Zip Code: <i>01581</i>
Phone: <i>508-366-0772, ext. 11</i>	Fax: <i>508-366-1807</i>	E-mail: <i>dedson@prism-env.com</i>

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?

☐ Yes

☒ No

Has this project been filed with MEPA before?

☐ Yes (EOEA No. \_\_\_\_\_)

☒ No

Has any project on this site been filed with MEPA before?

☒ Yes (EOEA No. **8042**)

☐ No

Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:

a Single EIR? (see 301 CMR 11.06(8))

☐ Yes

☒ No

a Special Review Procedure? (see 301 CMR 11.09)

☐ Yes

☒ No

a Waiver of mandatory EIR? (see 301 CMR 11.11)

☐ Yes

☒ No

a Phase I Waiver? (see 301 CMR 11.11)

☐ Yes

☒ No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): **Not applicable**

Are you requesting coordinated review with any other federal, state, regional, or local agency?

☐ Yes (Specify \_\_\_\_\_) ☒ No

List Local or Federal Permits and Approvals:

Agency Name

*MA Department of Environmental Protection (DEP)*

Type of Approval or Permit

*BRP WS17 through WS20; WS36; Water  
Management Act Permit Amendment*

*Spencer Conservation Commission/MA DEP*

*Notice of Intent/Order of Conditions*

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- |   |                                       |  |
|---|---------------------------------------|--|
| <input type="checkbox"/> Land             | <input type="checkbox"/> Rare Species | <input type="checkbox"/> Wetlands, Waterways, & Tidelands      |
| <input checked="" type="checkbox"/> Water | <input type="checkbox"/> Wastewater   | <input type="checkbox"/> Transportation                        |
| <input type="checkbox"/> Energy           | <input type="checkbox"/> Air          | <input type="checkbox"/> Solid & Hazardous Waste               |
| <input type="checkbox"/> ACEC             | <input type="checkbox"/> Regulations  | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals	
<b>LAND</b>				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input type="checkbox"/> Chapter 91 License <input type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input checked="" type="checkbox"/> Water Management Act Permit <i>Amendment</i> <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i>  <b>MA DEP BRP WS17 through WS20; WS36</b>	
Total site acreage	1100 sf				
New acres of land altered		0 sf			
Acres of impervious area	0 sf	0 sf	0 sf		
Square feet of new bordering vegetated wetlands alteration		0 sf			
Square feet of new other wetland alteration		1100 sf			
Acres of new non-water dependent use of tidelands or waterways		0 sf			
<b>STRUCTURES</b>					
Gross square footage	Not Applicable	Not Applicable	Not Applicable		
Number of housing units	Not Applicable	Not Applicable	Not Applicable		
Maximum height (in feet)	Not Applicable	Not Applicable	Not Applicable		
<b>TRANSPORTATION</b>					
Vehicle trips per day	Not Applicable	Not Applicable	Not Applicable		
Parking spaces	Not Applicable	Not Applicable	Not Applicable		
<b>WATER/WASTEWATER</b>					
Gallons/day (GPD) of water use	Not Applicable	Not Applicable	Not Applicable		
GPD water withdrawal	2,016,000	0	2,016,000		
GPD wastewater generation/treatment	Not Applicable	Not Applicable	Not Applicable		
Length of water/sewer mains (in miles)	Not Applicable	Not Applicable	Not Applicable		

**CONSERVATION LAND:** Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

☐ Yes (Specify \_\_\_\_\_) ☒ No

Will it involve the release of any conservation restriction, preservation restriction, agricultural preservation restriction, or watershed preservation restriction?

☐ Yes (Specify \_\_\_\_\_) ☒ No

**RARE SPECIES:** Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

☒ Yes (Specify Priority/Estimated Habitat PH 816/WH 5035 [Blanding's Turtle (reptile) and American Bittern (bird)] Refer to Attachment 2) ☐ No

**HISTORICAL /ARCHAEOLOGICAL RESOURCES:** Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

☐ Yes (Specify \_\_\_\_\_) ☒ No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

☐ Yes (Specify \_\_\_\_\_) ☒ No

**AREAS OF CRITICAL ENVIRONMENTAL CONCERN:** Is the project in or adjacent to an Area of Critical Environmental Concern?

☐ Yes (Specify \_\_\_\_\_) ☒ No

**PROJECT DESCRIPTION:** The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (You may attach one additional page, if necessary.)

On behalf of the Spencer Water Department, Prism Environmental, Inc. (Prism) has completed this Environmental Notification Form for the installation of a replacement public water supply well located south of Smithville Road and west of Meadow Road, on the west side of the Sevenmile River, in a wetland area in Spencer, Massachusetts. Refer to Attachment 1 for the USGS topographic map indicating the property.

This project meets the requirements of a limited project in accordance with 310 CMR 10.53(3)(o). The project was designed and will be implemented to minimize impacts to the resource areas and to meet the standards listed in 310 CMR 10.53(3)(o)(2) to the maximum extent practicable. There will be no increase in the volume of water to be pumped from the aquifer. The new well will be operated under the Spencer Water Department's amended Water Management Act Permit. Compensatory storage is not provided, nor required, since the proposed activities will not change site grades or existing flood storage volume. To minimize adverse impacts during construction, prior to commencing construction activities, temporary siltation and erosion controls (i.e., hay bales and silt fence) will be installed to encompass the area of the proposed activities as indicated on Sheet C-1. No restrictions in the flow of the river will occur since no direct work is proposed in the river or on its banks. The wetland area disturbed by the installation of the new water main, which connects into the existing water main, will be reestablished using the same topsoil/peat/vegetation removed during construction activities.

The proposed work includes the construction, development, and testing of a new 24-inch x 36-inch gravel-packed well. The proposed well, denoted Meadow Road Well #2, will be constructed less than 50 feet from the existing Meadow Road Well #1. The proposed replacement well will pump water into the existing water lines of Meadow Road Well #1. A 2-1/2-inch test well will be installed in the vicinity of the proposed Meadow Road Well #2, prior to installation of Meadow Road Well #2, to verify that soil conditions are suitable and similar to those of Meadow Road Well #1. A 48-hour pump test will be conducted on the completed well to determine the flow rate of the new well.

The existing Meadow Road Well #1 is an approved, principal source of public water supply for the Town of Spencer. Because of faulty construction, the well capacity has declined and it must be replaced. In accordance with Department of Environmental Protection's (DEP) "Draft Standard Operating Procedure – Replacement/Satellite Well Definitions" dated June 22, 1999 and DEP's standard practice, the replacement well must be located within 50 feet from the existing well. The replacement well, Meadow Road Well #2, will be properly designed and constructed.

The groundwater pumped from the 48-hour pump test will be routed through a flow dissipater to reduce the discharge velocity of the groundwater so that there will be no erosion at the point of discharge. The flow dissipater will be constructed of sheets of plywood and plastic. Refer to Sheet C-1 for the detail of the flow dissipater.

Upon completion of the replacement well and new water main installations, the existing well will be abandoned in place in accordance with MA DEP guidelines. It is anticipated that the proposed activities will be completed during the Fall of 2002. It is anticipated that the actual on-site construction activities will be completed within a eight-week period. The proposed construction sequence is as follows:

- File Notice of Intent and Environmental Notification Form
- Obtain Order of Conditions from the Spencer Conservation Commission
- Obtain Certificate from Secretary of Environmental Affairs
- File Order of Conditions with the Worcester County Registry of Deeds
- On-Site Construction Activities – Installation of hay bales and silt fence sedimentation barrier; installation of test well; installation of replacement well; 48-hour pump test; installation of new water main; abandonment of existing well; clean-up and demobilization
- Preparation of Record Drawing
- Request for Certificate of Compliance with Spencer Conservation Commission

The proposed site is not listed as an Area of Critical Environmental Concern. The proposed site intersect a Priority/Estimated Habitat PH 816/WH 5035 as indicated by the Natural Heritage and Endangered Species Program. According to the Flood Insurance Rate Map published by FEMA (dated September 14, 1990), the site is located in a "special flood hazard area inundated by 100-year flood." The base flood elevation line has been determined to be 636 feet.

An ENF was filed in November 1989 for the construction of the existing public water supply well, water main, pump station, and equipment (EOEA #8042). For that ENF submission the alternatives, impacts, and mitigating measures were evaluated. It was stated in the narrative for that ENF submission that a groundwater exploration program was conducted throughout the Town of Spencer and that two sites were identified as potential groundwater supplies. This site off Meadow Road provided the required yield to supply potable water to the Town.

## **LAND SECTION** – all proponents must fill out this section

### **I. Thresholds / Permits**

- A. Does the project meet or exceed any review thresholds related to **land** (see 301 CMR 11.03(1)) \_\_\_\_ Yes  
☒ No; if yes, specify each threshold:

### **II. Impacts and Permits**

- A. Describe, in acres, the current and proposed character of the project site, as follows:

	<u>Existing</u>	<u>Change</u>	<u>Total</u>
Footprint of buildings	<u>0</u>	<u>0</u>	<u>0</u>
Roadways, parking, and other paved areas	<u>0</u>	<u>0</u>	<u>0</u>
Other altered areas (describe)	<u>0</u>	<u>0</u>	<u>0</u>
Undeveloped areas ( <b>wetland</b> )	<u>1100 sf</u>	<u>0</u>	<u>1100 sf</u>

- B. Has any part of the project site been in active agricultural use in the last three years?

\_\_\_\_ Yes ☒ No; if yes, how many acres of land in agricultural use (with agricultural soils) will be converted to nonagricultural use?

- C. Is any part of the project site currently or proposed to be in active forestry use?

\_\_\_\_ Yes ☒ No; if yes, please describe current and proposed forestry activities and indicate whether any part of the site is the subject of a DEM-approved forest management plan:

- D. Does any part of the project involve conversion of land held for natural resources purposes in accordance with Article 97 of the Amendments to the Constitution of the Commonwealth to any purpose not in accordance with Article 97? \_\_\_\_ Yes ☒ No; if yes, describe: